



Zahner Alfg. Company

3111-316 West Thentieth Street Kansas City, Missouri

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Zahner Fire Proof Windows

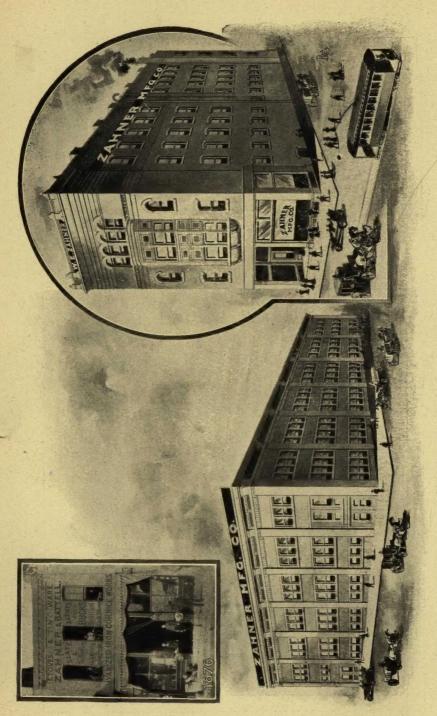
Automatic Closing
Sheet Metal Frames and Sash
Glazed with Wire Glass
Construction and Styles

Manufactured by

Zahner Manufacturing Co.

310-12-14-16 West Twentieth St.

Established 1876.



310-316 West Twentieth Street

1906-Zahner Manufacturing Co., Kansas City, Mo.

12 West Tenth Street

Foreword

E are pleased to present to you this illustrated catalogue in which will be found descriptions and illustrations of the Zahner Fire Proof Windows, and such details and dimensions as will, we think, be of most practical value to architects, builders and owners in general.

The Fire Proof Window has been before the public long enough to prove its efficiency, and we do not believe it necessary here to enter an argument for its fire proof qualities, or the many advantages it possesses over fire proof shutters, constructed as it is with hollow metal frames and sash, glazed with wire glass.

The object of the invention has been to provide a window which will not be destroyed or seriously damaged by fire, and a sash that will close automatically when struck by heat. We have made these essential points a special study, and combined with its mechanical construction and architectural details, we declare for the Zahner Fire Proof Window a standard of excellence not reached by any other so-called fire proof window. We invite your most critical inspection further than this catalogue, and any specific information called for will receive our *promptest* attention.

ZAHNER MANUFACTURING CO.

FIRE proof window is generally known to be constructed of metal frames glazed with wire glass, but an owner or an architect in selecting a window so composed has not always the assurance that he has a thorough fire proof window. Wire glass has been demonstrated to successfully resist fire, but its effectiveness depends entirely upon the construction of the metal frames and sashes in which it is placed. The window must be practical and made mechanically correct in all its details by a thoroughly reliable maker to pass the undisputed approval of the underwriters and to serve its purpose as a fire proof agent to its purchaser.

The superiority of the Zahner Fire Proof Window lies in the long experience of the manufacturers as sheet metal workers. This window is not the inspiration of a few short months, but the evolution of ideas and workmanship wrought out by the experience of years. Every detail and each principal involved in its manufacturing has been put to the most stringent tests, and it has been pronounced to be as near perfect as the idea of a fire proof window was ever contemplated. Wire glass in its various forms is used throughout (where glass can be used) and No. 22 and No. 24 galvanized steel or 20 oz. copper is used respectively for the material in the frames and sashes, and as the miters fit securely and accurately it is an assurance of their utmost strength and fire proof ability. And for the same reason this window is positively weather proof.

The architectural appearance of the Zahner Fire Proof Window speaks for itself. In appearance its superiority is first eminent.

The facilities of a new and modern factory are also significant of our product. The latest machinery and equipment have been installed in our plant, and in appointment it cannot be surpassed. This insures an immediate delivery of an order and means no delay to your building.

Whether in quality, design or practicability the Zahner Fire Proof Window will be found to meet the most exacting requirements and specifications, and with this is a positive guarantee of such service that will meet with your approval.

List of Buildings

where we have installed the Zahner Fire Proof Windows

Atchison, Topeka & Santa Fe Railway Elevator, Argentine, Kans.

Abernathy Furniture Co., Leavenworth, Kans.

Hesse Carriage Co., Leavenworth, Kans.

J. R. Kelley Cooperage Works, Kansas City, Kans. Interstate Milling Co., Topeka, Kans.

Nelson Morris Packing Co., So. St. Joseph, Mo. United Zinc and Chemical Co., Argentine, Kans.

Missouri & Kansas Telephone Co., Kansas City, Kans.

American Dressed Beef and Provision Co., Kansas City, Kans.

United Oil and Cotton Mills, Kansas City, Kans.

Farmers' Bank, Stafford, Kans.

Swift & Co., So. St. Joseph, Mo.

Briggs Hardware Co., Neosho, Mo.

Jno. Morrell Packing Co., Ottumwa, Ia.

Armour Packing Co., Kansas City, U. S. A.

Abernathy Furniture Co., Kansas City, Mo. Jones Dry Goods Co., Kansas City, Mo.

Roach & Kienzle Sash and Door Co., Kansas City, Mo. Smith Steam Baking Co.

Missouri & Kansas Telephone Co., Kansas City, Mo.

Mason Bldg. First National Bank Bldg. Nettleton Bldg.

D. A. Morr Warehouse Fletcher Confectionery Co.
K. C. Bag Co. Green Grocery Co.

Co. Green Grocery Co. Fidelity Trust Co., Bldg.

Shubert Theater Bldg.

National Biscuit Co.

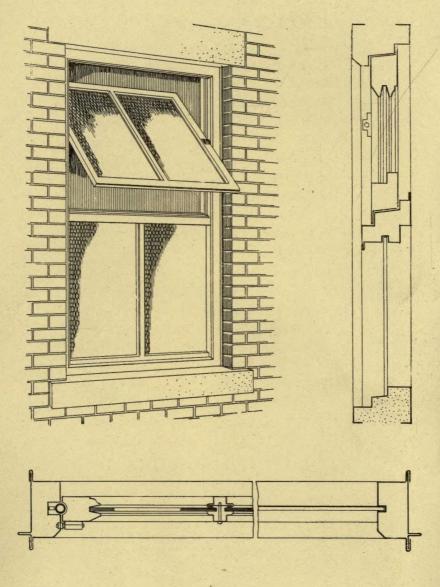
Hall Bldg. Elks Club Beggs Wagon Co.

W. S. Dickey Clay Mfg. Co

Lillis Bldg. T. M. James

Tiernan Bldg., Kansas City, Mo.

Standard Window



Standard Window

The Standard window is made in full of No. 24 Galvanized Iron, or heavier material if so specified. It can also be made of 20 oz. copper, re-enforced as exposure demands. It is absolutely weather-proof. It has double lapped edges top and bottom, while the sides of the sash have a half round groove, so that when the window is closed it will allow the tube, which is in a channel, on the side of the frame to be forced out into the groove in the sash by a spring, which makes it an absolute weather and dust proof window and prevents rattling. The pivot on this window is made of steel, and as it is in a brass socket, it is practically rust proof. The muntin bar is re-enforced with a heavy piece of band iron, and is made in two pieces.

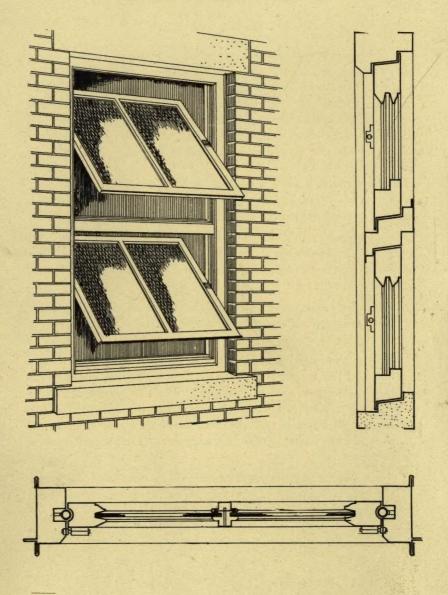
The glazing of this window can all be done from the inside, and putty is only required in a very small space on the sides where the glass fits into the three-quarter inch groove. No putty is used for the purpose of holding the glass in place.

The lock is especially designed for this window, and is made without springs. It is a gravity lock, which means that it will always be in working order.

This window is especially desirable in factory and warehouse buildings. The top sash is pivoted, affords all necessary ventilation desired. The lower sash is stationary. The wire glass used in it is not transparent, but translucent, prevents the employes inside the building from watching the street to see the different crowds and parades pass and makes them of necessity devote their attention to the work at hand.

We only cite this argument as one of the many in favor of our Standard metal windows in the way of cutting down expenses and recommend the Standard window for factory purposes.

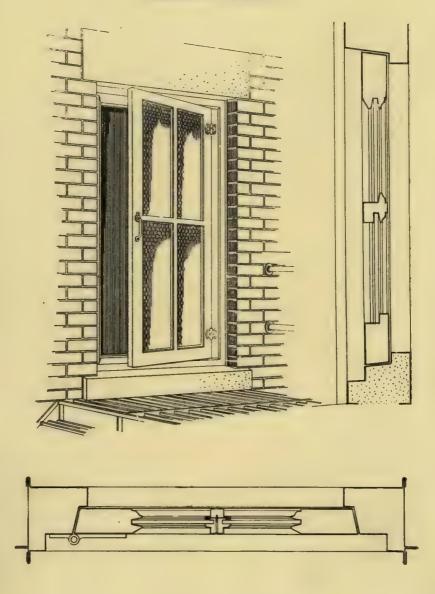
Double Standard Window



Double Standard Window

The Double Standard window is constructed along the same lines as our Single Standard. The only difference being that both top and bottom sash are pivoted. These are used mostly in factories when the heat is intense, and a great deal of ventilation is required. When both windows are open it practically gives the entire brick opening for ventilation, but diminishes the light surface, as it requires one additional sash over that of the Single Standard window.

Casement Window



Casement Window

In this Casement window the frame is made of No. 22 galvanized iron and the sash of No. 24, and is re-enforced throughout with band iron, so as to assure a very strong and substantial window. This window is used more as a fire escape window or door. It is hung on a patented gravity hinge which assures that the window will always be closed. It takes the place of a steel door in the case of a fire fighting platform, or fire escape outlet, and has the advantage over a steel door by being glazed with wire glass, which allows as much light as a regular window, and is closed all the time, when not in actual use.

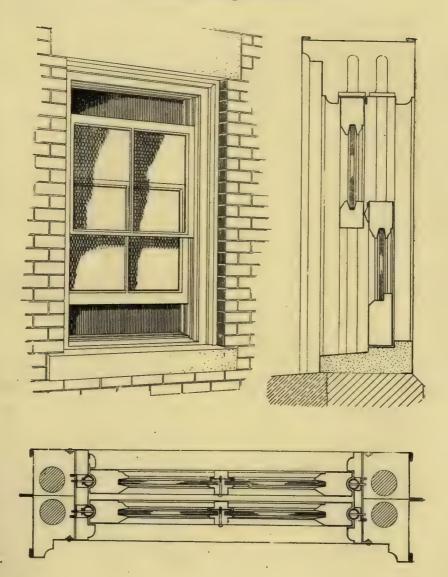


Interior Views of Factory - Showing Equipmen



of Machinery and Facilities for Handling Work

Double Hung Window



Double Hung Window

This window is made of the same material as that of the Standard window, and is constructed in every detail to make it thoroughly weatherproof. It can be made with both sash sliding or one stationary and one sliding.

The sash has a back lining of brass which is formed into a half circle. It slides on brass tubing from top to bottom. On one side of the window the tubes are set in stationary, on the other side the tubes are adjustable and can be set out against the sash as tight as desired. It has practically no friction, and is as smooth a runner as any window manufactured.

The adjustable tubes when set tight against the sash makes it an absolutely weather and dust proof window, as well as doing away with all the rattling generally encountered in a sliding window.

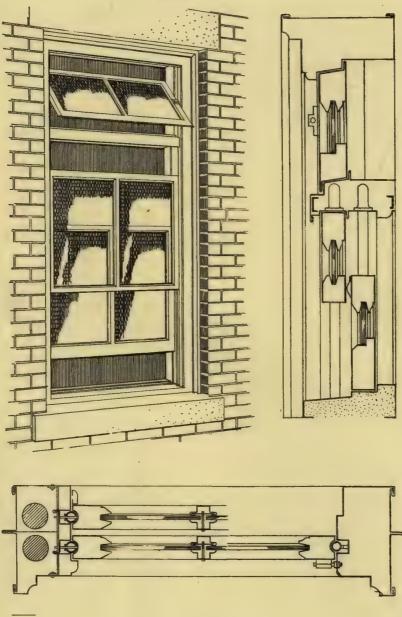
The center dividing rail is arranged with a brass binding strip which forms a tight joint making it also weatherproof. The pulleys are arranged overhead in a covered box, which protects the wheels and cables from interference during the construction of the building.

In this window the bottom sash is arranged to close automatically, as required by the Underwriters. We have a patented appliance which can be applied to any of our Double Hung windows, that closes both top and bottom sash automatically, this however is only furnished by special request, or on specifications that specify them.

The sash can be made in as many panels as desired in the use for office building. It can be made into three separate panels using polished plate glass in the center, and ribbed wire glass in the two outside. The polished plate glass being for transparent purposes only, and is used in the lower sash, the upper sash being glazed solely with ribbed glass.

We also manufacture this Double Hung window, so it can be turned over that the exterior may be washed from the inside. This window is especially adapted for high buildings, and does away with the necessity of having to get outside to wash the windows.

Transom Window

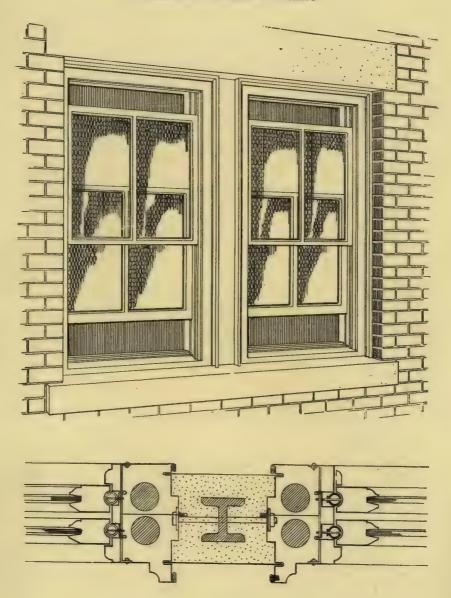


Transom Window

This window can be made either double hung, pivoted or stationary lower and pivoted or stationary transom upper, as the situation demands. It is specially adapted for store buildings which are long and narrow and require a great deal of light.

It is re-enforced across the dividing mullion which extends out into the brick, and makes practically two distinct windows in one. It is made of the same material as the Standard window, and is arranged to close automatically.

Mullion Window Frame



Mullion Window Frame

This frame can be made of any of the types of window, Stationary, Standard, Double Standard or Double Hung. It is constructed of the same material as is the Standard window or heavy as the opening demands. The Mullion is constructed of a 5 in. I beam, bolted substantially to the galvanized iron frame, and the pocket filled with concrete, making it the same as a column of brick in between the two windows, allowing a great deal more light area, than could be had by using a brick column between the windows. By constructing the window in this manner it affords complete fire protection, and makes it a very strong and substantial window.

It is especially adapted for factory and store buildings where a great area of light is required. This window can be made to fill any size opening as long as same is within the bounds of the Underwriters. The number of Mullions does not interfere in the least.



Nettleton Building, Kansas City, Mo.

Root & Siemens, Architects.

C. F. Etwien, Contractor-

Equipped with Double Hung and Standard pivoted windows.



D. A. Morr Warehouse, Kansas City, Mo.

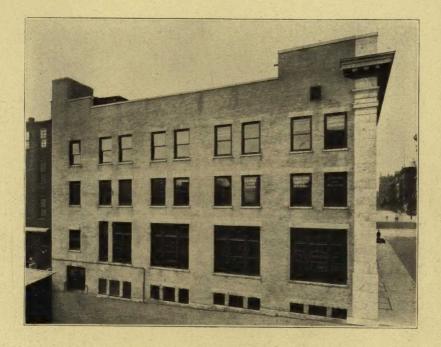
James Oliver Hogg, Architect. Urban Construction Co., Contractors.

All exterior walls equipped with Standard pivoted windows.



Swift & Co., So. St. Joseph, Mo.

One of the several buildings, equipped with our Double Standard pivoted windows.



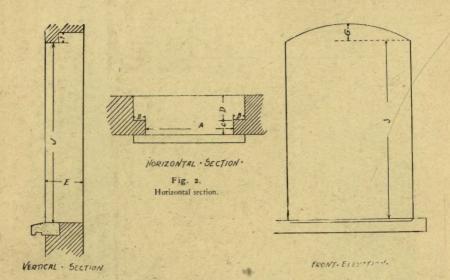
First National Bank, Kansas City, Mo.

Wilder & Wight, Architects

Geo. L. Brown & Son, Contractors.

This building is equipped with Galvanized Iron Double Hung windows in north elevations and light shaft although not glazed with wire glass, they are all made of metal.

Measurements for Windows should be supplied as follows:



A-Width of clear opening in wall.

J-Clear height of square head opening.

G-Rise of arch.

F-Offset at the top.

C-Depth of reveal.

D-Inner edge of reveal to inner face.

B—Offset.

E-Thickness of wall.

State whether square, segment, or circular head is wanted.

